MULTIMEDIA UNIVERSITY

STUDENT ID NO

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# MULTIMEDIA UNIVERSITY

# FINAL EXAMINATION

**TRIMESTER 2, 2019/2020**

## DEP5121 – ETHICS AND CYBERTECHNOLOGY

( For Diploma in IT students only )

10 MARCH 2020
2:30 p.m. – 4:30 p.m.
( 2 Hours )

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**INSTRUCTIONS TO STUDENT**

1. This question paper consists of **2 pages.**
2. Answer **ALL** questions in the **Answer Booklet.**

**FOUR Structured Questions (40 Marks)**

**Question 1**

a) *During Phase 3 (1990-present) of the evolution of cybertechnology and cyberethics, phenomenal growth of World Wide Web facilitated the availability of Internet access to general public.*

i. Explain cyberethics and cybertechnology. (1 mark)

ii. Describe **THREE** ethical and social concerns raised by the rise of Internet-based and Web-based technologies in this phase. (3 marks)

b) Consider the following ethical dilemma:

*Chris, a data analyst for Casino De Genting is working after office hours to complete an important project. He realizes that there is missing data about customers, which he believes, is residing in his project member's computer.*

*Chris had unintentionally observed her typing her password several days ago and decides to log into her computer to obtain the data. Upon doing so, Chris sees an open email regarding customers of Casino De Genting which she sent to an unknown person with a file attachment.*

*Chris knows he should report this but would have to admit to violating the company's IT code of practice by logging into her computer. If he asks her about it, he would also have to reveal the source of his information.*

i. Based on **TWO** ethical theories, explain what Chris should do in this situation. (3 marks)

ii. Based on IT professional code of ethics, explain if Chris's action of accessing his project member's computer is ethical. (1 mark)

iii. Based on IT professional code of ethics, explain if the project member's action is ethical. (1 mark)

iv. Explain what might happen to the project member if Chris reports the incident. (1 mark)

**[TOTAL 10 MARKS]**

**Question 2**

a) Describe "professional ethics" in the context of computing and cybertechnology. (1 mark)

b) Explain **FOUR** primary functions of professional codes for IT professionals. (4 marks)

**Continued...**

c) Explain **TWO** ways how privacy concerns are made worse by cybertechnology. (2 marks)

d) What are Internet cookies? Describe **TWO** concerns of the use of cookies. (3 marks)

**[TOTAL 10 MARKS]**

**Question 3**

a) Explain hacktivism and activism. Describe **TWO** reasons against hacktivism. (4 marks)

b) Explain data security and system security. (2 marks)

c) *Common types of cybercrimes include online scams, identity thefts and data breaches.*

i. Describe online scams and identity thefts. (2 marks)

ii. Describe **FOUR** ways to avoid becoming a victim of these cybercrimes. (2 marks)

**[TOTAL 10 MARKS]**

**Question 4**

a) *You have written a program that helps students to convert physical notes to digital notes in real-time. You believe this new program has neither been written nor developed as an application before. Few of your course mates have shown interest in joining you to develop the mobile app. One of them has suggested to name the app 'P2DNotes4U' while another has volunteered to design the logo.*

i. Explain **TWO** intellectual property protection schemes that you and your course mates should consider. (3 marks)

ii. Based on Labor theory, explain why your app should be protected. (1 mark)

b) Explain "free speech" and "hate speech". Describe an example of free speech and hate speech over the Internet. (3 marks)

c) What is digital divide? Is digital divide an ethical issue? Explain. (3 marks)

**[TOTAL 10 MARKS]**

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